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Submitted by [rickyjones](#) ([Contact Author](#)) ([Forums](#)) on Fri, 2008-01-04 15:44. ::

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Step 5: Configure SAMBA

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Now we need to configure SAMBA. This includes configuring the `/etc/samba/smb.conf` file.

Open up the SAMBA directory.

```
cd /etc/samba/
```

Backup the samba configuration file.

```
cp smb.conf smb.conf.original
```

Open the samba configuration file for editing.

```
vim smb.conf
```

Make the following changes throughout the file:

```
workgroup = EXAMPLE
security = user
passdb backend = ldapsam:ldap://localhost/
obey pam restrictions = no
#####
#COPY AND PASTE THE FOLLOWING UNDERNEATH "OBEY PAM RESTRICTIONS"
#####
#
#       Begin: Custom LDAP Entries
#
ldap admin dn = cn=admin,dc=example,dc=local
ldap suffix = dc=example, dc=local
ldap group suffix = ou=Groups
ldap user suffix = ou=Users
```

Comment out the line:

```
invalid users = root
```

Add the following line:

```
logon path =
```

Restart SAMBA.

```
/etc/init.d/samba restart
```

Give SAMBA the "admin" password to the LDAP tree.

```
smbpasswd -w 12345
```

Step 6: Configure the SMLDAP-TOOLS package.

We will be using the smbldap-tools package to populate our directory, add users, add workstations, etc... But, the tools need to be configured first!

Open up the examples directory.

```
cd /usr/share/doc/smbldap-tools/examples/
```

Copy the configuration files to `/etc/smbldap-tools`:

```
cp smbldap_bind.conf /etc/smbldap-tools/  
cp smbldap.conf.gz /etc/smbldap-tools/
```

Unzip the configuration file.

```
gzip -d /etc/smbldap-tools/smbldap.conf.gz
```

Open up the `/etc/smbldap-tools` directory.

```
cd /etc/smbldap-tools/
```

Get the SID (Security ID) for your SAMBA domain.

```
net getlocalsid
```

This results in (example): SID for domain DC01-UBUNTU is:

S-1-5-21-949328747-3404738746-3052206637

Open the `/etc/smbldap-tools/smbldap.conf` file for editing.

```
vim smbldap.conf
```

Edit the file so that the following information is correct (according to your individual setup):

```
SID="S-1-5-21-949328747-3404738746-3052206637" #
sambaDomain="EXAMPLE"
ldapTLS="0"
suffix="dc=example,dc=local"
sambaUnixIdPooldn="sambaDomainName=EXAMPLE,${suffix}"
userSmbHome=
userProfile=
userHomeDrive=
userScript=
mailDomain="example.local"
```

Open the `/etc/smbldap-tools/smbldap_bind.conf` file for editing.

```
vim smbldap_bind.conf
```

Edit the file so that the following information is correct (according to your individual setup):

```
slaveDN="cn=admin,dc=example,dc=local"
slavePw="12345"
masterDN="cn=admin,dc=example,dc=local"
masterPw="12345"
```

Set the correct permissions on the above files:

```
chmod 0644 /etc/smbldap-tools/smbldap.conf
chmod 0600 /etc/smbldap-tools/smbldap_bind.conf
```

Step 7: Populate LDAP using smbldap-tools

Now we need to populate our LDAP directory with some necessary SAMBA and Windows entries.

Execute the command to populate the directory.

```
smbldap-populate -u 30000 -g 30000
```

At the password prompt assign your root password:

```
12345
```

Verify that the directory has information in it by running the command:

```
ldapsearch -x -b dc=example,dc=local | less
```

Step 8: Add an LDAP user to the system

It is time for us to add an LDAP user. We will use this user account to verify that LDAP authentication is working.

Add the user to LDAP

```
smbldap-useradd -a -m -M ricky -c "Richard M" ricky
```

Here is an explanation of the command switches that we used.

-a allows Windows as well as Linux login

-m makes a home directory, leave this off if you do not need local access

-M sets up the username part of their email address

-c specifies their full name

Set the password the new account.

```
smbldap-passwd ricky
# Password will be: 12345
```

Step 9: Configure the server to use LDAP authentication.

The basic steps for this section came from the Ubuntu Forums (<http://ubuntuforums.org/showthread.php?t=597056>). Thanks to all who contributed to that thread! Basically we need to tell our server to use LDAP authentication as one of its options. Be careful with this! It can cause your server to break! This is why we always have a backup around.

Install the necessary software for this to work.

```
apt-get install auth-client-config libpam-ldap libnss-ldap
```

Answer the prompts on your screen with the following:

```
Should debconf manage LDAP configuration?: Yes
LDAP server Uniform Resource Identifier: ldapi://127.0.0.1
Distinguished name of the search base: dc=example,dc=local
LDAP version to use: 3
Make local root Database admin: Yes
Does the LDAP database require login? No
LDAP account for root: cn=admin,dc=example,dc=local
LDAP root account password: 12345
```

Open the `/etc/ldap.conf` file for editing.

```
vim /etc/ldap.conf
```

Configure the following according to your setup:

```
host 127.0.0.1
base dc=example,dc=local
uri ldap://127.0.0.1/
rootbinddn cn=admin,dc=example,dc=local
bind_policy soft
```

Copy the `/etc/ldap.conf` file to `/etc/ldap/ldap.conf`

```
cp /etc/ldap.conf /etc/ldap/ldap.conf
```

Create a new file `/etc/auth-client-config/profile.d/open_ldap:`

```
vim /etc/auth-client-config/profile.d/open_ldap
```

Insert the following into that new file:

```
[open_ldap]
nss_passwd=passwd: compat ldap
nss_group=group: compat ldap
nss_shadow=shadow: compat ldap
pam_auth=auth          required          pam_env.so
auth          sufficient  pam_unix.so likeauth nu
auth          sufficient  pam_ldap.so use_first_p
auth          required    pam_deny.so
pam_account=account   sufficient    pam_unix.so
account       sufficient  pam_ldap.so
account       required    pam_deny.so
pam_password=password sufficient    pam_unix.so
password      sufficient  pam_ldap.so use_first_p
password      required    pam_deny.so
```

Backup the `/etc/nsswitch.conf` file:

```
cp /etc/nsswitch.conf /etc/nsswitch.conf.original
```

Backup the `/etc/pam.d/` files:

```
cd /etc/pam.d/
mkdir bkup
cp * bkup/
```

Enable the new LDAP Authentication Profile by executing the following command:

```
auth-client-config -a -p open_ldap
```

Reboot the server and test to ensure that you can still log in using SSH and LDAP.

```
reboot
```

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[Ldap replica server](#)

Submitted by [x2r](#) (registered user) on Wed, 2009-09-16 16:32.

Thank you for the excellent post. It was very useful. I already have the Samba and Ldap working together and I'm trying to make a slave server. The idea is have a second sever if my PDC server broke. I have search in many places and until now I did not find useful information. Have someone already did something like this or has any idea how i can do it.Thanks a lot.

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[root authentication problem](#)

Submitted by [ilkay karadam](#) (not registered) on Wed, 2008-11-12 12:17.

i completed installation step by step but i cannot connect to samba domain from xp client. it s giving unknow user or password. (i am trying to connect with root acount and it s password). what is the problem.

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[Re: root authentication problem](#)

Submitted by [Xavier Normand](#) (not registered) on Thu, 2008-12-04 21:11.

Same problem with me! i'm only getting access denied when trying to add client xp to domain.

Please help.

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[Problem configuring LDAP authentication](#)

Submitted by [ahoffman](#) (registered user) on Mon, 2008-05-26 19:05.

It seems like there is a problem when trying to complete step 9 to configure the server to use LDAP authentication.

When running the command:

```
"apt-get install auth-client-config libpam-ldap libnss-ldap"
```

The following error is generated:

```
"Couldn't find package auth-client-config"
```

Based on doing some research it seems that auth-client-config is rather new and has not been included in many packages. Does anyone know where this could be found? Any help would be greatly appreciated.

Thanks,
Aaron

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[Re: Problem configuring LDAP authentication](#)

Submitted by [pebcomputing](#) (not registered) on Sat, 2009-10-03 00:54.

I am in the process of adapting this howto to debian lenny and ran into the same problem. I fixed it by downloading the source from here: <https://launchpad.net/auth-client-config/+distributions> , untarring it, changing directory into the untarred package root, and running `./install.py --prefix=/usr --config-prefix=/etc` as was suggested in the package's README.

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[Re: Problem configuring LDAP authentication](#)

Submitted by [Anonymous](#) (not registered) on Wed, 2008-11-05 20:07.

Better yet would be how to set it up using the pam.d directory.

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Problem configuring LDAP authentication

Submitted by sony (not registered) on Sun, 2009-03-01 11:00.

Hi,

if you get something like this when adding groups etc. to ldap:

failed to add entry: objectClass: value #4 invalid per syntax at /usr/sbin/smbldap-populate line 499, <GEN1> line 55.

--> new openldap has its config inside ldap for replication purpose

you have to backup your slapd.d directory, create a new one and execute:

```
slaptest -f slapd.conf -F slapd.d
chown -R openldap:openldap slapd.d
```

this will read the smb schemas and put it into config

greetz

sony

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